

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Ernest C. Chen et al. : I hereby certify that this correspondence is
: being electronically filed with the United
: States Patent and Trademark Office
: addressed to:

Serial No.: 10/519,322

Filing Date: 12-23-2004

For: IMPROVING HIERARCHICAL
8 PSK PERFORMANCE

Mail Stop Amendment, Commissioner for
Patents, P. O. Box 1450, Alexandria, VA
22313-1450, on the date below.


Georgann S. Grunebach

Typed or printed name of person signing certificate

Group Art Unit: 2611

Examiner: ANH, Sam K.

Date: July 30, 2007

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR 1.97(b)(3)

Mail Stop Amendment
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

The references cited on the enclosed form PTO/SB/08A may be relevant or material to the examination of the above-identified patent application and are, therefore, submitted in compliance with the duty of disclosure defined in 37 CFR 1.56. It is respectfully requested that the references be considered and made of record in the application identified above.

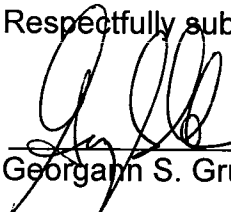
This statement should be considered because it is being submitted before the mailing of a first Office action on the merits under 37 C.F.R. §1.97(b)(3). Accordingly, it is submitted that no fee is due in this matter.

However, if it is determined that any appropriate fee is due, the Commissioner is hereby authorized to charge Deposit Account No. 50-0383 of Hughes Electronics Corporation, El Segundo, California.

This Information Disclosure Statement is not to be construed as a representation that a search has recently been made, that additional information material to the examination of this application does not exist, or that this citation constitutes prior art.

Respectfully submitted,

By:


Georgann S. Grunebach, Reg. No. 33,179

The DIRECTV Group, Inc.
CA/LA1/A109
P. O. Box 956
El Segundo, CA 90245

Telephone No. (310) 964-4615

July 30, 2007

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| Substitute for form PTO/SB/08A | | Complete if Known | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | Application Number | 10/519,322 |
| | | Filing Date | December 23, 2004 |
| | | First Named Inventor | Ernest Chen |
| | | Art Unit | 2611 |
| | | Examiner Name | AHN, Sam K. |
| Date: | July 30, 2007 | | |
| Sheet 1 of 1 | | Attorney Docket Number | PD-202109 |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|----------|-------------------------------------|--------------------------------|--|--|
| Examiner Initials* | Cite No. | Document Number Number-Kind Code | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | US-5,285,474 | 02-1994 | Chow et al. | |
| | | US-6,002,713 | 12-1999 | Goldstein et al. | |
| | | US-6,078,645 | 06-2000 | Cai et al. | |
| | | US-6,313,885 | 11-2001 | Patel et al. | |

| U.S. PUBLICATION DOCUMENTS | | | | | |
|----------------------------|----------|-------------------------------------|--------------------------------|--|--|
| Examiner Initials* | Cite No. | Document Number Number-Kind Code | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | US-2002/0009141 | 01-2002 | Yamaguchi et al. | |
| | | US-2002/0186761 | 12-2002 | Corbaton et al. | |
| | | US-2003/0171102 | 09-2003 | Yang, Bin | |
| | | US-2004/0013084 | 01-2004 | Thomas et al. | |
| | | US-2004/0091059 | 05-2004 | Chen, Ernest C. | |
| | | US-2006/0022747 | 02-2006 | Chen et al. | |
| | | US-2006/0045191 | 03-2006 | Vasanth et al. | |

| FOREIGN PATENT DOCUMENTS | | | | | |
|--------------------------|----------|--|--------------------------------|--|---|
| Examiner Initials* | Cite No. | Foreign Patent Document Country Code-Number-Kind Code | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | T |
| | | EP 0115218 | 08-1984 | Mitsubishi Petrochemical Co. | |
| | | EP 1011245 | 06-2000 | Matsushita Electric Ind. Co. | |
| | | EP 1065854 | 01-2001 | Tandberg Television ASA | |
| | | WO 99/23718 | 05-1999 | Motorola Inc. | |
| | | WO 01/39455 | 05-2001 | Thomson Licensing SA | |
| | | WO 01/39456 | 05-2001 | Thomson Licensing SA | |
| | | WO 2005/074171 | 08-2005 | Qualcomm Incorporated | |
| | | WO 2005/086444 | 09-2005 | Thomson Licensing SA | |
| | | KR 2001 0019997 (English abstract included) | 03-2001 | Hynix Semiconductor Inc. | |

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|--------------------|--|-----------------|--|
| Examiner Signature | | Date Considered | |
|--------------------|--|-----------------|--|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.